Metabolomics (quantification of primary metabolites, short-chain fatty acids, bile acids, steroids, and any other compounds) Lipidomics (Phospholipids, Lipid Mediators) Consignment Analysis Usage

Table of Contents

1. Utilization Procedure

① Meeting

For first-time use, a preliminary meeting is required.

Please contact the Omics Analysis Laboratory.

Persons in charge of metabolomics and lipidomics

Maeda (e-mail: ymaeda@fujita-hu.ac.jp, Extension: 9814)

② Submission of Consignment Analysis Request Form

Please download the "Metabolomics Consignment Analysis Request Form" or the "Lipidomics Consignment Analysis Request Form" from the Cooperative Research Equipment Support Center website.

Metabolomics: URL

https://info2.fujita-hu.ac.jp/rpsc-shien/uploads/4e1e802e3368f97abd9 831afca312fe3b9d78466.docx

Lipidomics: URL

https://info2.fujita-hu.ac.jp/rpsc-shien/uploads/77744b1198e3387511 8de847d3e77a82c9748ad4.docx

Fill in the required information and bring it along with your samples, or send it by email.

③ Sample Submission

Please bring the samples in the condition requested during the preliminary meeting.

④ Measurement Execution and Return of Results

Preprocessed samples will be measured by LC-MS/MS, and the measurement results will be sent in an Excel file.

Typically, results will be returned within 2-3 weeks after sample submission.

Please be aware that the process may take longer depending on the equipment's usage and the number of samples.

2. Sample Preparation

For sample types such as serum, plasma, urine, tissue, and cells, please consult with us. Metabolomics preprocessing is performed by the Omics Analysis Laboratory (fees included). Lipidomics preprocessing is available for an additional fee.

3. Analysis Equipment

High-Performance Liquid Chromatography (HPLC): Nexera X2, Nexera XS (Shimadzu)

Tandem Mass Spectrometer (MS/MS): LCMS-8060, LCMS-8060 NX (Shimadzu)

Analysis Software: Lab Solution (Shimadzu), Multi-omics Package (Shimadzu), Travers MS (Reifycs)

4. Fees and Payment Methods

Metabolomics
Primary Metabolites

3,500 yen/sample

Short-Chain Fatty Acids

3,500 yen/sample

Bile acid

5,000 yen/sample

Steroids

5,000 yen/sample

Quantification of Specific Compounds
Method Development   30,000 yen/session
Measurement   2,800 yen/sample

Lipidomics

    Phospholipid

        Pretreatment: 1,000 yen/sample

        Gross analysis: 5,000 yen/sample

        Fatty acid chain analysis: 5,000 yen/sample

    Lipid mediators

        Pretreatment: 1,000 yen/sample

        Refining: 1,000 yen/sample

        Measurement: 4,500 yen/sample

We bill the usage fees monthly. We will send a billing request from the Research Support Division of the Research Promotion Headquarters in the early part of the month following the month we send you the measurement results. Payment is possible through university research funds, public research funds, etc. For inquiries, please contact the Research Support Division.

5. Disclaimer

This Consignment analysis does not guarantee the results.

Our analysis lab assumes no responsibility if analysis results are not obtained due to the quality of the submitted samples or other factors. In this case, usage fees will be invoiced.

6. Remeasurement

If the consignment analysis cannot be performed due to equipment trouble or other issues, we will redo the measurement free of charge.

7. Analysis

After LC-MS/MS measurement, you can perform data analysis yourself using a multi-omics package, including pathway analysis, principal component analysis, heat maps, and volcano plots.

8. Research Consultation

If you have any questions about the analysis results, please feel free to contact us. We have established a research consultation service for technical matters related to metabolomics and lipidomics. Please feel free to use it.
Contact: Maeda at ymaeda@fujita-hu.ac.jp, ext. 9814